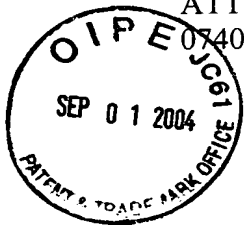


ATTORNEY'S DOCKET NO.:

074036.0125

PATENT APPLICATION

10/723,107



09/03/04

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Mohammed N. Islam  
Appln. Serial No.: 10/723,107  
Date Filed: November 25, 2003  
Title: Optical Logic Gate Based Optical Router

**Mail Stop Amendment**  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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*Willie Jiles*

Willie Jiles

INFORMATION DISCLOSURE STATEMENT

Applicant respectfully requests, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified patent application. No representation is made that a search has been made, that these references are material to the patentability of the present application, or that these references qualify as prior art.

Since the Application was filed after June 30, 2003, under the July 11, 2003 waiver of 37 C.F.R. § 1.98(a)(2)(i) by the U.S. Patent and Trademark Office, no copy of any U.S. Patent or U.S. Patent Application Publication listed on the attached PTO-1449 form is enclosed.

This Information Disclosure Statement is being submitted pursuant to 37 C.F.R. § 1.97(b), and therefore Applicant believes no fees are due. However, the Commissioner is

hereby authorized to charge any fees or credit any overpayments to Deposit Account No. 02-0384 of Baker Botts L.L.P.

Respectfully submitted,  
BAKER-BOTTTS L.L.P.



Brian J. Gaffney  
Reg. No. 51,712  
Attorneys for Applicant

Correspondence Address:

Customer Number:

**05073**

Date: Sept. 1, 2004

PTO-1449  <b>Information Disclosure Citation in an Application</b>	Application No.	Applicant(s)	
	10/723,107	Mohammed N. Islam et al.	
	Docket Number	Group Art Unit	Filing Date
	074036.0125		November 25, 2003

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	A	5,751,469	05/12/98	Arney, et al.	359	291	02/01/96
	B	5,774,252	06/30/1998	Lin et al.	359	224	04/19/1996
	C	5,825,528	10/20/98	Goossen	359	291	12/26/95
	D	5,835,255	11/10/98	Miles	359	291	05/05/94
	E	5,841,579	11/24/98	Bloom, et al.	359	572	06/07/95
	F	5,850,492	12/15/98	Morasca, et al.	385	11	11/06/96
	G	5,870,221	02/09/99	Goossen	359	290	07/25/97
	H	5,909,303	06/01/1999	Trezza et al.	359	248	01/03/1997
	I	5,914,804	06/22/99	Goossen	359	291	01/28/98
	J	5,920,391	07/06/1999	Grasdepot et al.	356	352	04/22/1998
	K	5,943,155	08/24/99	Goossen	359	247	08/12/98
	L	5,943,158	08/24/99	Ford, et al.	359	295	05/05/98
	M	5,943,454	08/24/99	Aksyuk, et al.	385	22	08/15/97
	N	5,949,571	09/07/99	Goossen, et al.	359	291	07/30/98

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							YES	NO
	O	0 788 005 A2	06.08.1997	EP	G02B	26/02	X	
	P	99/34484	08.07.1999	WO	H01S		X	
	Q	01/09995 A1	08.02.2001	WO	H01S	5/00	X	

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	R	O. Solgaard, et al., "Deformable Grating Optical Modulator," Optics Letters, Vol. 17, No. 9, pp. 688-690	05/01/92
	S	W.R. Wiszniewski, et al., "Mechanical Light Modulator Fabricated On A Silicon Chip Using Simox Technology, pp. 1027-1030	Undated
	T	M.W. Chbat, "High-spectral-efficiency transmission systems," OFC 2000, Baltimore, MD, pp TuJ1-1, 134-136	
	U	J.W. Bayless, et al., "The Specification and Design of Bandlimited Digital Radio Systems," IEEE Transactions on Communications, Vol. COM-27 (12): pp. 1763-1770	
	V	D.E. Sene, et al., "Polysilicon Micromechanical Gratings for Optical Modulation," Elsevier Vol. Sensors and Activators (A 57), pp. 145-151	

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



<b>Information Disclosure Citation in an Application</b>	Application No.	Applicant(s)	
	10/723,107	Mohammed N. Islam et al.	
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	074036.0125		November 25, 2003

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	A	4,011,009	03/08/77	Lama, et al.	350	162 R	05/27/75
	B	4,900,119	02/13/90	Hill, et al.	350	96.15	04/01/88
	C	5,103,340	04/07/1992	Dono et al.	385	46	08/07/1991
	D	5,212,743	05/18/93	Heismann	385	11	02/12/92
	E	5,291,502	03/01/1994	Pezeshki et al.	372	20	09/04/1992
	F	5,311,360	05/10/94	Bloom, et al.	359	572	04/28/92
	G	5,343,542	08/30/1994	Kash et al.	385	31	04/22/1993
	H	5,459,610	10/17/95	Bloom, et al.	359	572	05/20/93
	I	5,500,761	03/19/96	Goossen, et al.	359	290	01/27/94
	J	5,654,819	08/05/97	Goossen, et al.	359	291	01/07/95
	K	5,659,418	08/19/97	Yurke	359	290	02/05/96
	L	5,661,592	08/26/97	Bornstein, et al.	359	291	01/07/95
	M	5,701,193	12/23/97	Vogel, et al.	359	290	02/21/96
	N	5,745,271	04/28/98	Ford, et al.	359	130	07/31/96

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							YES	NO
	O	0 667 548 A1	16.08.1995	EP	G02B	26/02	X	
	P	0 689 078 A1	27.12.1995	EP	G02B	26/08	X	

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	Q	K. E. Petersen, "Micromechanical Light Modulator Array Fabricated On Silicon," Applied Physics Letters, Vol. 31, No. 8, pp. 521-523	10/15/77
	R	C. Marxer, et al., "Megahertz Opto-Mechanical Modulator," Elsevier Science S.A., pp. 46-50	1996
	S	C. M. Ragdale, et al., "Integrated Three Channel Laser and Optical Multiplexer for Narrowband Wavelength Division Multiplexing," Electronics Letters, Vol. 30, No. 11, pp. 897-898	05/26/94
	T	K. O. Hill, et al., "Narrow-Bandwidth Optical Waveguide Transmission Filters," Electronic Letters, Vol. 23, No. 9, pp. 465-466	04/23/87
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	V	K. Aratani, et al., "Process and Design Considerations for Surface Micromachined Beams for A Tuneable Interferometer Array in Silicon," Handbook of Physics, pp. 230-235	1993

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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<b>PTO-1449</b>  <b>Information Disclosure Citation in an Application</b>			<b>Application No.</b> <b>10/723,107</b> <b>Docket Number</b> <b>074036.0125</b>		<b>Applicant(s)</b> <b>Mohammed N. Islam et al.</b> <b>Group Art Unit</b> <b>Filing Date</b> <b>November 25, 2003</b>		
<b>U.S. PATENT DOCUMENTS</b>							
		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE</b>
	<b>A</b>	5,949,801	09/07/1999	Tayebati	372	20	07/22/1998
	<b>B</b>	5,960,133	09/28/99	Tomlinson	385	18	01/27/98
	<b>C</b>	5,974,207	10/26/99	Aksyuk, et al.	385	24	12/23/97
	<b>D</b>	5,986,796	11/16/99	Miles	359	260	11/05/96
	<b>E</b>	5,999,319	12/07/1999	Castracane	359	573	04/29/1998
	<b>F</b>	6,002,513	12/14/99	Goossen, et al.	359	291	06/22/98
	<b>G</b>	6,025,950	02/15/2000	Tayebati et al.	359	244	07/27/1998
	<b>H</b>	6,041,071	03/21/2000	Tayebati	372	64	09/27/1996
	<b>I</b>	6,123,985	09/26/2000	Robinson et al.	427	162	10/28/1998
	<b>J</b>	6,204,946 B1	03/20/2001	Aksyuk et al.	359	131	11/12/97
	<b>K</b>	0055147 A1	12/27/2001	Little et al.	359	293	03/20/2001
	<b>L</b>	6,271,052 B1	08/07/2001	Miller et al.	438	50	10/19/2000
	<b>M</b>	6,301,274 B1	10/09/2001	Tayebati et al.	372	20	03/30/1999
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		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>
							<b>YES</b> <b>NO</b>
	<b>N</b>	01/67156 A3	13.09.2001	WO	G02B	26/00	X
	<b>O</b>	01/67157 A2	13.09.2001	WO	G02B	26/00	X
	<b>P</b>	01/67158 A2	13.09.2001	WO	G02B	26/00	X
	<b>Q</b>	01/67171 A2	13.09.2001	WO	G02F	1/21	X
	<b>R</b>	01/75497 A1	11.10.2001	WO	G02B	6/35	X
<b>NON-PATENT DOCUMENTS</b>							
		<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>					<b>DATE</b>
	<b>S</b>	D.M. Burns, et al., "Micro-Electro-Mechanical Variable Blaze Gratings," IEEE 10th Annual International Workshop on Micro Mechanical Systems, pp. 385-391					1997
	<b>T</b>	L.Y. Lin, et al., "Micromachined polarization-state-controller and its application to polarization-mode dispersion compensation," OFC 2000, Baltimore, MD, pp. ThQ3-1, 244-246					2000
	<b>U</b>	J.W. Bayless, et al., "High Density Digital Data Transmission," National Telecommunications Conference, Dallas, TX, pp. 1-6					1976
	<b>V</b>	R.W. Corrigan, et al., "17.3: Calibration of a Scanned Linear Grating Light Value Projection System," <a href="http://www.siliconlight.com">www.siliconlight.com</a>					1999
<b>EXAMINER</b>					<b>DATE CONSIDERED</b>		
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	C	6,381,387 B1	04/30/2002	Wendland, Jr.	385	37	08/02/2000
	D	2002/0105697 A1	08/08/2002	Fabiny	359	128	02/12/2002
	E	6,439,728 B1	08/27/2002	Copeland	359	515	08/28/2001
	F	6,407,851 B1	06/18/2002	Islam et al.	359	291	08/01/2000
	G	2002/0035193 A1	02/20/2003	Islam et al.	359	290	08/22/2002
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	I	2003/0086465 A1	05/08/2003	Peters et al.	372	50	10/30/2002
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							YES	NO
	K	WO 01/37021 A1	14.11.2000	PCT	G02B	6/42	X	
	L	WO 01/79795 A1	22.03.2001	PCT	G01J	3/28	X	
	M	WO 02/056521 A1	02.11.2001	PCT	H04J	14/00	X	
	N	WO 02/059655 A2	20.12.2001	PCT	G02B		X	

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		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
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	Q	M. Ming, et al., "Principles and Applications of Optical Communications," Irwin, pp. 468 & 470	1996
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	T	A. Willner, "WDM Systems 1," OFC '97, Dallas, TX, pp. TuJ, 43-45	1997
	U	C. Pu, et al., "Micromachined Integrated Optical Polarization-State Rotator," IEEE Photonics Technology Letters, Vol. 12 (10), pp. 1358-1360	10/2000

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<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	<b>B</b>	WO 02/06860 A1	11.07.2001	PCT	G02B	5/18	X
	<b>C</b>	WO 02/10822 A1	31.07.2001	PCT	G02B	6/34	X
	<b>D</b>	WO 02/21191 A1	07.09.2001	PCT	G02B	27/10	X
	<b>E</b>	WO 02/50588 A1	20.12.2001	PCT	G02B	6/26	X
<b>NON-PATENT DOCUMENTS</b>							
		<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>					<b>DATE</b>
	<b>F</b>	D.T. Amm, et al., "5.2: Grating Light Valve Technology: Update and Novel Applications," Presented at Society for Information Display Symposium, Anaheim, CA, pp. 1-4					1999
	<b>G</b>	D.M. Burns, et al., "Development of Micromechanical Variable Blaze Gratings," Elsevier Science S.A., vol. Sensors and Actuators, pp. 7-15					1998
	<b>H</b>	C.K. Madsen, et al., "A Tunable Dispersion Compensating MEMS All-Pass Filter," IEEE Photonics Technology Letters, Vol. 12 (6), pp. 651-653					2000
	<b>I</b>	J.E. Ford, et al., "Passband-Free Dynamic WDM Equalization," ECOC '98, Madrid, Spain, pp. 317-318					1998
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	<b>K</b>	L.Y. Lin, et al., "Angular-Precision Enhancement in Free-Space Micromachined Optical Switches," IEEE Photonics Technology Letters, Vol. 11 (10), pp. 1253-1255					1999
	<b>L</b>	L.Y. Lin, et al., "Free-Space Micromachined Optical Switches with Submillisecond Switching Time for Large-Scale Optical Crossconnects," IEEE Photonics Technology Letters, Vol. 10 (4), pp. 525-527					1998
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	<b>N</b>	E.P. Furlani, et al., "Analysis of grating light valves with partial surface electrodes," American Institute of Physics, Vol. 83 (2), pp. 629-634					1998
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	<b>P</b>	K. Aratani, et al., "Surface micromachined tuneable interferometer array," Sensors and Actuators, Vol. 43, pp. 17-23					1994
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	<b>R</b>	S.R. Mallinson, "Wavelength-selective filters for single-mode fiber WDM systems using Fabry-Perot interferometers," Applied Optics, Vol. 26 (3), pp. 430-436					1987
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	<b>A</b>						
<b>FOREIGN PATENT DOCUMENTS</b>							
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	<b>B</b>						<b>YES</b> <b>NO</b>
<b>NON-PATENT DOCUMENTS</b>							
		<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>					<b>DATE</b>
	<b>C</b>	L.Y. Lin, et al., "Optical-layer Networking: Opportunities for and Progress in Lightwave Micromachines," OFC 2000, Baltimore, MD, pp. 1-88					2000
	<b>D</b>	Burnett et al., "Diffraction and Interference," in E. U. Condon and H. Odishaw, eds., <u>Handbook of Physics</u> (McGraw-Hill, New York, Toronto, and London), pp. 6-102 and 6-103					1958
	<b>E</b>	"Polarization Mode Dispersion (PMD)," Cables & Components Technical Papers, <a href="http://www.usa.alcatel.com/cc/techprs/fnlpmd2.htm">http://www.usa.alcatel.com/cc/techprs/fnlpmd2.htm</a>					2000
	<b>F</b>	Curtis Menyuk, University of Maryland, Baltimore County "PMD in Optical Transmission System," Menyuk tutorial, OFC 2000, pp. 78-97 specifically pp. 92-94					03/2000
	<b>G</b>	Agrawal, "Fiber-Optic Communication Systems," A Wiley-Interscience Publication, The Institute of Optics University of Rochester NY, pp. 284-360					1997
	<b>H</b>	Ford et al., "Fiber-Coupled Variable Attenuator Using a MARS Modulator," Invited Paper, SPIE, Vol. 3226, pp. 86-93					1997
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	<b>K</b>	Walker et al., "Mechanical Anti-Reflection Switch (MARS) Device for Fiber-In-the-Loop Applications," Invited FA1, pp. 59-60					Undated
	<b>L</b>	Jerman, "Miniature Fabry-Perot Interferometer Micromachined in Silicon for use in Optical Fiber WDM Systems," Transducers '91, International Solid-State Conference on Sensors and Actuators, pp. 372-375					1991
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	<b>N</b>	Vail et al., "GaAs micromachined widely tunable Fabry-Perot Filters," Electronics Letters, Vol. 31, No. 3, pp. 228-229					01/1996
	<b>O</b>	Vail et al., "High performance micromechanical tunable vertical cavity surface emitting lasers," Electronics Letters, Vol. 32, No. 20, 2 pages					09/26/1996
	<b>P</b>	Tayebati et al., "Microelectromechanical tunable filter with stable half symmetric cavity," Electronics Letters, Vol. 34, No. 20, pp. 1967-1968					10/01/1998
	<b>Q</b>	Tayebati et al., "Microelectromechanical tuneable filters with 0.47 nm linewidth and 70 nm tuning range," Electronics Letters, Vol. 34, No. 1, 2 pages					01/08/1998
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U.S. Patent and Trademark Office



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	<b>B</b>						
<b>NON-PATENT DOCUMENTS</b>							
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